Economical

FlashBlade//E features compelling acquisition cost with long-term savings created on space, energy, resources and low operational costs.

Environmental

Get the industry leading platform that protects against rising power costs, data center sprawl and E-waste.

Effortless

Experience seamless management, workload optimization, and improvements, all while scaling without complexity.

Everlasting

Gain long-term sustainability, longer reliability, and the advantages of DirectFlash® and Pure Storage® Evergreen® subscriptions.

DATA SHEET

Pure Storage FlashBlade//E

Join the new era of unstructured data.

The rapid increase in digital transformation and IT modernization continue to drive unprecedented growth of digital information.

In fact, it is estimated that large enterprises will grow their unstructured data more than ten times by 2030. Caught in the midst of this massive surge, organizations are struggling to scale their legacy storage environments while managing budgets, complexity, data center footprints, and energy usage. Organizations need an efficient, effortless, and everlasting solution to maximize capacity and accommodate rapid unstructured data growth.

Introducing Pure Storage FlashBlade//E

FlashBlade//E™ is an all-flash, capacity-optimized unified file and object storage platform designed to take massive unstructured data growth and management head on. It's a modern storage solution that delivers an experience without compromise: simple manageability, massive scalability, unparalleled density, and environmental sustainability—all at an acquisition price comparable to disk-based products, with lower long-term cost of ownership.

With predictable performance, energy efficiency, and simplicity at its core, FlashBlade//E is the ideal unified solution for unstructured data repository workloads across data protection, technical computing, AI, and many other use cases across a multitude of industry verticals. FlashBlade//E offers denser, more energy-efficient storage that's cost-effective for unstructured workloads through a system that gets better over time. With the introduction of FlashBlade//E, FlashBlade® is the last storage solution you'll need to address the ever-changing demands of unstructured data and modern application growth.

Powered by Purity OS and DirectFlash

FlashBlade//E runs on the proven Purity operating system, the unified storage OS powering the Pure Storage® platform. Designed for maximized efficiency, Purity for FlashBlade enables the industry-leading innovative Pure Storage FlashBlade systems. It enables greater visibility across everyday file and object workloads and removes the unnecessary complexity of managing storage. It provides native NFS, S3, and SMB protocol support and can support billions of files and objects in a single system. FlashBlade//E is designed to easily scale out to tens of petabytes, so it can grow with your organization's unstructured data needs. Unique DirectFlash® technology makes this scale possible, offering industry-leading density and efficiency for all-flash storage systems. When combined with the core architecture of FlashBlade, which decouples storage and compute resources, the result is an easy to manage, highly scalable all-flash solution for everyday file and object workloads.

Built for the Growing Unstructured Data Challenge

With unbridled data growth at the epicenter of IT's storage challenges, scalable, simple to manage unstructured data storage has never been more necessary. FlashBlade//E provides optimal energy and capacity efficiency at multi-petabyte scale for repository workloads with unstructured data storage that is primed for the workloads of today and the future. Built on the same DirectFlash technology that powers the entire Pure Storage portfolio, FlashBlade//E is the ideal platform for organizations to tame their data growth challenges. Heterogeneous capacity expansions on FlashBlade//E gives organizations the opportunity to deploy denser DirectFlash® Modules (DFMs) into their existing storage systems to further reduce the total cost of ownership without sacrificing reliability or efficiency.

Innovation at Its Core

Increasingly, data is becoming the key source of value for businesses and organizations. No matter the use case—whether its analytics, data modeling, AI, archiving or data recovery—customers no longer need to compromise. Pure Storage is innovating where others aren't. FlashBlade//E shakes up the status quo for unstructured data workloads that have previously been limited to disk-based systems. FlashBlade//E reduces pressure on already strained space, energy, and administrative resources, all at an initial investment similar to disk-based systems. Like all Pure Storage products, FlashBlade//E is a low-carbon footprint solution that helps organizations reach their sustainability goals. FlashBlade has a proven track record delivering the densest and most effective, multi-petabyte unstructured data repository to meet and exceed workload requirements.

Making the Green Data Center a Reality

Today, more than ever, environmental, social, and corporate governance (ESG) initiatives are important, and growing energy costs are an increasing challenge. As a result, space and power constraints are becoming crucial considerations in long-term, economic storage strategies. The simple architectural design in FlashBlade//E uncomplicates the relationship between data storage and a lower carbon footprint. Its scale-out potential is designed to save data center space and streamline energy consumption, power, and cooling—all without adding additional headcount. Designed to complement green data initiatives, FlashBlade//E is more efficient with the more data you store, creating a storage solution that has an immediate positive impact on the environment while significantly lowering your long-term TCO.
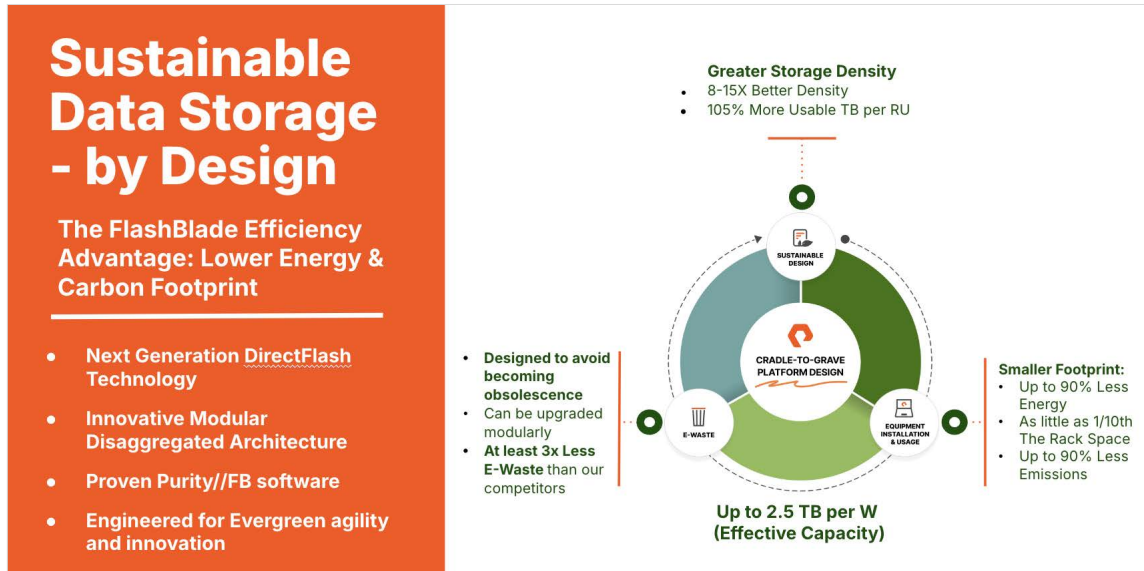
FIGURE 1   FlashBlade sustainability advantages

Simplicity Is in Our DNA

At Pure Storage, simplicity is reflected in our hardware, software, and service. We aim to improve and simplify how data is stored, mobilized, and protected to remove infrastructure limitations and embrace data growth. Purity for FlashBlade enables it to scale tremendously. Purposefully designed to run on the all-flash hardware found in FlashBlade//E, Purity for FlashBlade has a variable block metadata engine and scale-out metadata architecture that can handle billions of files and objects and delivers predictable performance for any workload, whether it's with sequential or random access. Purity also delivers a rich set of enterprise capabilities including compression, global erasure coding, always-on encryption, SafeMode™ Snapshots, file replication, object replication, and multiple other features.

Storage That Gets Better over Time

FlashBlade//E is designed to accelerate future innovation, making it simpler to bring scalable, power-efficient, and performant systems to market faster to address the evolving demands of modern file and object workloads. Evergreen® Storage eliminates the cost and disruption of forklift upgrades. New software features and capabilities are continually and proactively added, and storage elasticity supports future scalability needs. FlashBlade//E is a sustainable, ESG-ready solution designed to save space, consume less power, be seamlessly and non-disruptively upgraded, thus extending the life of your investment. FlashBlade//E is the dawn of the new era of storage for file and object repository workloads. Evergreen//One™ offers a subscription to continuous innovation with a flexible consumption model and guaranteed SLAs, enabling you to achieve the benefits of FlashBlade//E the same way as other popular cloud-based infrastructure offerings.

Technical Specifications

	Scale	Capacity	Connectivity	Physical
With 48TB DFMS	Start with two chassis and scale up by adding more chassis for a future-proof design	40×48TB Direct Flash Modules per chassis	Up to 16×100GbE	1U per XFM 5U per chassis
	Minimum configuration: 2 XFMs 1 EC chassis (storage + compute) 1 EX chassis (storage)	Starts at 4PB, grows in 2PB increments	Integrated, upgradable networking	Chassis Dimensions: 8.59" x 17.43" x 32.00" XFM Dimension: 1.7'' x 17.26'' x 25.89''
	Maximum Configuration: 2 XFMs 10 Chassis (EC + EX)		Future-proof design	XFMs: 310W (each) EC Fully Populated Chassis: 2,300W EX Fully Populated Chassis: 1,600W (nominal at full configuration)
With 75TB DFMS	Start with 1.5 chassis Scales up by adding 0.5 chassis for a future-proof design	20/40×75TB Direct Flash Modules per chassis	Up to 16×100GbE	1U per XFM 5U per chassis
	Minimum configuration: 2 XFMs 1 EC chassis (storage + compute) 1/2 EX chassis (storage)	Starts at 4.5PB, grows in 1.5PB increments	Integrated, upgradable networking	Chassis Dimensions: 8.59" x 17.43" x 32.00" XFM Dimension: 1.7'' x 17.26'' x 25.89''
	Maximum Configuration: 2 XFMs 10 Chassis (EC + EX)		Future-proof design	XFMs: 310W (each) EC Fully Populated-Chassis: 2,300W EX Fully Populated Chassis: 1,600W (nominal at full configuration)
With 150TB DFMS	Start with 1.5 chassis Scales up by adding 0.5 chassis for a future-proof design	20/40×150TB Direct Flash Modules per chassis	Up to 16×100GbE	1U per XFM 5U per chassis
	Minimum configuration: 2 XFMs 1 EC chassis (storage + compute) 1/2 EX chassis (storage)	Starts at 9PB, grows in 3PB increments	Integrated, upgradable networking	Chassis Dimensions: 8.59" x 17.43" x 32.00" XFM Dimension: 1.7'' x 17.26'' x 25.89''
	Maximum Configuration: 2 XFMs 10 Chassis (EC + EX)		Future-proof design	XFMs: 310W (each) EC Fully Populated-Chassis: 2,300W EX Fully Populated Chassis: 1,600W (nominal at full configuration)

Additional Resources

- Discover more about FlashBlade//E for your unstructured data storage demands.